

XP-002371427

## (C) WPI / DERWENT

AN - 1991-025973 [04]

AP - JP19890116598 19890510

CPY - TAIC

DC - B02

FS - CPI

IC - A61K31/35 ; A61K35/78 ; C07D311/62

MC - B06-A01 B12-A01 B12-F05 B12-G02 B12-G07 B12-H03

M2 - [01] D013 D023 D120 G015 G017 G100 H4 H404 H405 H421 H444 H8 J011 J221

M1 M113 M123 M136 M280 M320 M412 M511 M520 M531 M532 M540 M781 M903

M904 P220 P526 P633 P721 P814; 9104-21601-U

PA - (TAIC) TAIYO CHEM IND CO LTD

PN - JP2295923 A 19901206 DW199104 000pp

PR - JP19890116598 19890510

XA - C1991-011166

XIC - A61K-031/35 ; A61K-035/78 ; C07D-311/62

AB - J02295923 Tea leaves are extracted with a large quantity of water or an alcohol. e.g. MeOH, EtOH, n-PrOH, i-PrOH, BuOH, at room temp. The extract is evapd. and the residue dissolved in water and partitioned with hexane, CHCl<sub>3</sub> and EtOAc, successively. The EtOAc portion is chromatographed on a silica gel column and eluted with CHCl<sub>3</sub>/MeOH (20 : 1 and 10 : 1) to give the following 6 active components.

(-)-catechin (1)(R<sub>1</sub>=H); (-)-epicatechin (2)(R<sub>1</sub>=R<sub>2</sub>=H);

(+)-gallocatechin (1)(R<sub>1</sub>=OH); (-)-epigallocatechin (2)(R<sub>1</sub>=OH, R<sub>2</sub>=H);

(-)-epicatechin gallate (2)(R<sub>2</sub>=3,4,5-trihydroxybenzoyl);

(-)-epigallocatechin gallate (2)(R<sub>1</sub>=OH, R<sub>2</sub>=3,4,5-trihydroxybenzoyl).

These cpds. can further be purified by chromatography on Sephadex LH-20 or by recyclic HPLC on a LC-908 or GS-320 column.

- r Compsns. contain catechium (I) as active component where R<sub>1</sub>=H or OH; R<sub>2</sub> = H or trihydroxyl benzoyl.

- USE/ADVANTAGE - Inhibit enteric bacteria esp. Clostridium, hepatic diseases, or spontaneous infections. Since cpds. are isolated from tea leaves (*Thea sinensis* L.) they can be used for as well as adults. They may be administered orally as a liq, solid or semi-solid prepn. at a does of 0.1 mcg/kg or more.

- Example, In an example to green tea leaves (1 kg) was added 4 of MeOH and the mixt. allowed to stand at room temp. for 2 days. The leaves were removed by filtration and the filtrate was evapd. and dried to give 0.23 kg of MeOH extract cont. the active components. (7ppDwg.No.0/0)

CN - 9104-21601-U

IW - COMPOSITION INHIBIT HARM ENTERAL BACTERIA CLOSTRIDIUM CAUSE TUMOUR  
HYPERTENSIVE CONTAIN CATECHOL DERIVATIVE EXTRACT TEA

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NC - 001

OPD - 1989-05-10

ORD - 1990-12-06

PAW - (TAIC) TAIYO CHEM IND CO LTD

TI - Compsns. for inhibiting harmful enteric bacteria - e.g. clostridium causing tumour, hypertension etc., contg. catechol deriv. extracted from tea